

**Method and Circuit System for Calibrating Voltage and Temperature Deviations of the Effective Current of Hydraulic Valves in a PWM Drive**

**ABSTRACT OF THE TECHNICAL DISCLOSURE**

The present invention relates to a method for reducing deviations between the effective current and the measured current in a pulse-width-modulated current control, in particular for electronic brake control units of motor vehicles, wherein the measured current is determined at a certain predefined time within an actuation period and a compensation occurs by means of temperature-responsive and/or supply-voltage-responsive compensation variables which are added to the measured current such that a corrected nominal current is available for current control. The invention also relates to a circuit arrangement for actuating several inductive loads and comprises a circuit for PWM control of the load current. The method of the invention is implemented as a program in a microcomputer or microcomputer system that is electrically connected to the PWM circuit.